

CLAIMS

What is claimed is:

1 1. An electronic device comprising:
2 a display;
3 a display interconnect coupled to the display;
4 a display support mechanism coupled to the display,
5 the display support mechanism adapted to enable a
6 horizontal rotation and a translation of the display; and
7 a body case having a first opening configured to
8 physically separate the display interconnect from the
9 display support mechanism, and a second opening configured
10 to limit the horizontal rotation and the translation of
11 the display conducted by the display support mechanism.

1 2. The electronic device according to claim 1,
2 wherein the display support mechanism to concurrently
3 conduct the horizontal rotation and the translation of the
4 display.

1 3. The electronic device according to claim 1,
2 wherein the display comprises a flat panel display.

1 4. The electronic device according to claim 1,
2 wherein the body case comprises (i) a first body casing
3 having an integrated keyboard and a cursor control device,
4 (ii) a hinge coupled to the first body casing, and (iii) a
5 second body casing rotationally coupled to the hinge.

1 5. The electronic device according to claim 4,
2 wherein the display, being placed in a first position
3 having a portrait orientation, completely covers the
4 integrated keyboard and the hinge.

1 6. The electronic device according to claim 5,
2 wherein the display, being placed in a second position
3 having a landscape orientation, completely covers the
4 hinge and partially covers the integrated keyboard.

1 7. The electronic device according to claim 6,
2 wherein the display, being placed in a third position
3 having a landscape orientation, exclusively covering a
4 substantial portion of the second body casing.

1 8. The electronic device according to claim 4,
2 wherein the first opening is formed in the second body
3 casing by a plurality of perimeter edges including a first
4 perimeter edge having a convex curvature forming an arc
5 along which the display interconnect is moved in response
6 to the horizontal rotation of the display.

1 9. The electronic device according to claim 1,
2 wherein the display support mechanism comprises (i) a
3 fastening element coupled to the display and (ii) a shaft
4 coupled to the fastening element.

1 10. The electronic device according to claim 9,
2 wherein the second opening is defined by a plurality of
3 perimeter edges includes a first perimeter edge having a
4 curvature to preclude horizontal rotation of the shaft in
5 either a clockwise direction or a counter-clockwise
6 direction.

1 11. The electronic device according to claim 9,
2 wherein the second opening is defined by a plurality of
3 perimeter edges forming a channel portion and an expanded
4 portion, the channel portion enabling translation of the
5 shaft from a center of the body case toward an end of the

6 body case, the expanded portion enabling horizontal
7 rotation of the shaft.

1 12. The electronic device according to claim 1,
2 wherein the first opening and the second opening are pre-
3 formed areas formed within the body case that provide
4 access to an interior of the body case.

1 13. An electronic device comprising:
2 a display;
3 a shaft fixedly coupled to the display, the shaft
4 being adapted to horizontally rotate and translate the
5 display; and
6 a body case coupled to the shaft, the body case
7 having a slot with an opening configured to limit
8 horizontal rotation and a distance of translation by the
9 shaft so as to limit horizontal rotation of and a distance
10 of translation by the display.

1 14. The electronic device according to claim 13,
2 wherein the display comprises a flat panel display.

1 15. The electronic device according to claim 13,
2 wherein the shaft is configured as a pinion to
3 concurrently translate the shaft from a center of the body
4 case toward an end of the body case when the shaft is
5 being horizontally rotated.

1 16. The electronic device according to claim 13,
2 wherein the body case is formed with an opening configured
3 to physically separate a display interconnect coupled to
4 the display from the shaft.

1 17. The electronic device according to claim 16,
2 wherein the opening for the display interconnect is

3 defined by a plurality of perimeter edges formed within
4 the body case, a first perimeter edge of the plurality of
5 perimeter edges having a convex curvature forming an arc
6 along which the display interconnect is moved when the
7 display is horizontally rotated.

1 18. The electronic device according to claim 17,
2 wherein a radius of the arc formed by the first perimeter
3 edge is equal to a distance between a center of the body
4 case and the display interconnect.

1 19. The electronic device according to claim 13, the
2 display is horizontally rotated about an axis of rotation
3 located at a center of the display.

1 20. An apparatus comprising:
2 a circuit board;
3 a flat panel display;
4 means for interconnecting the circuit board and the
5 flat panel display;
6 support means for horizontally rotating and
7 translating the flat panel display; and
8 means for partially housing the support means and for
9 limiting horizontal rotation and translation of the
10 support means so as to limit horizontal rotation and
11 translation of the flat panel display.

1 21. The apparatus according to claim 20, wherein the
2 support means comprises:

3 a fastening element adapted for coupling to the flat
4 panel display;

5 a shaft coupled to the fastening element, the shaft
6 being partially inserted into the means for partially
7 housing the support means; and

8 a securing element movably engaged with the means for
9 partially housing the support means, the securing element
10 to restrict lateral movement of the support means.

1 22. The apparatus according to claim 21, wherein the
2 means for partially housing the support means comprises:

3 a body case having a slot with a first opening
4 configured to limit rotation and translation of the shaft
5 inserted there through from an area inclusive of a center
6 of the body case toward an end of the body case and
7 thereby limiting the horizontal rotation of the flat panel
8 display and the translation of the flat panel display.

1 23. The apparatus according to claim 22, wherein the
2 body case further having a second opening different from
3 the first opening, the second opening being configured as
4 a conduit for a display interconnect coupling the circuit
5 board to the flat panel display.

1 24. The apparatus according to claim 23 further
2 comprising a protective cover mounted around the second
3 opening to reduce wear of the display interconnect.

1 25. An electronic device comprising:

2 a display initially placed in a portrait orientation
3 and capable of being horizontally rotated, about a
4 vertical axis of rotation located proximate to a center of
5 the display, for placement in a landscape orientation;

6 a display interconnect in communication with the
7 display;

8 a display support mechanism securely coupled to the
9 display, the display support mechanism comprises a shaft
10 adapted to be horizontally rotated and to be translated
11 from a first location to a second location; and

12 a body case having an opening configured as a conduit
13 for the display interconnect, and an opening for a slot
14 adapted to permit horizontal rotation of the shaft in a
15 single direction and to preclude translation of the shaft
16 until after the display has been rotated and placed in the
17 landscape orientation.

1 26. The electronic device according to claim 25,
2 wherein the display support mechanism is adapted to
3 concurrently rotate and translate the display.
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